

Parameter	Unit	Value
Initial concentration	mol/L	0.1
Initial temperature	°C	25
Initial pH		7.0
Initial ionic strength	mol/L	0.1
Initial volume	L	1.0
Initial pressure	atm	1.0
Initial density	g/cm ³	1.0
Initial viscosity	Pa·s	0.01
Initial conductivity	S/cm	0.1
Initial refractive index		1.33
Initial surface tension	N/m	0.072
Initial dielectric constant		80
Initial magnetic permeability	T·m/A	4π × 10 ⁻⁷
Initial electric permittivity	F/m	8.85 × 10 ⁻¹²
Initial thermal conductivity	W/m·K	0.6
Initial mass diffusivity	m ² /s	1.5 × 10 ⁻⁹
Initial thermal diffusivity	m ² /s	1.5 × 10 ⁻⁷
Initial mass transfer coefficient	m/s	1.0 × 10 ⁻³
Initial heat transfer coefficient	W/m ² ·K	10
Initial mass transfer resistance	s/m	1.0 × 10 ³
Initial heat transfer resistance	K·m ² /W	0.1
Initial mass transfer Biot number		1.0 × 10 ⁻³
Initial heat transfer Biot number		10
Initial mass transfer Fourier number		1.5 × 10 ⁻⁹
Initial heat transfer Fourier number		1.5 × 10 ⁻⁷
Initial mass transfer Peclet number		1.5 × 10 ⁻⁹
Initial heat transfer Peclet number		1.5 × 10 ⁻⁷
Initial mass transfer Schmidt number		1.5 × 10 ⁻⁹
Initial heat transfer Schmidt number		1.5 × 10 ⁻⁷
Initial mass transfer Prandtl number		1.5 × 10 ⁻⁹
Initial heat transfer Prandtl number		1.5 × 10 ⁻⁷
Initial mass transfer Lewis number		1.5 × 10 ⁻⁹
Initial heat transfer Lewis number		1.5 × 10 ⁻⁷
Initial mass transfer Damköhler number		1.5 × 10 ⁻⁹
Initial heat transfer Damköhler number		1.5 × 10 ⁻⁷
Initial mass transfer Thiele modulus		1.5 × 10 ⁻⁹
Initial heat transfer Thiele modulus		1.5 × 10 ⁻⁷
Initial mass transfer Biot number		1.0 × 10 ⁻³
Initial heat transfer Biot number		10
Initial mass transfer Fourier number		1.5 × 10 ⁻⁹
Initial heat transfer Fourier number		1.5 × 10 ⁻⁷
Initial mass transfer Peclet number		1.5 × 10 ⁻⁹
Initial heat transfer Peclet number		1.5 × 10 ⁻⁷
Initial mass transfer Schmidt number		1.5 × 10 ⁻⁹
Initial heat transfer Schmidt number		1.5 × 10 ⁻⁷
Initial mass transfer Prandtl number		1.5 × 10 ⁻⁹
Initial heat transfer Prandtl number		1.5 × 10 ⁻⁷
Initial mass transfer Lewis number		1.5 × 10 ⁻⁹
Initial heat transfer Lewis number		1.5 × 10 ⁻⁷
Initial mass transfer Damköhler number		1.5 × 10 ⁻⁹
Initial heat transfer Damköhler number		1.5 × 10 ⁻⁷
Initial mass transfer Thiele modulus		1.5 × 10 ⁻⁹
Initial heat transfer Thiele modulus		1.5 × 10 ⁻⁷

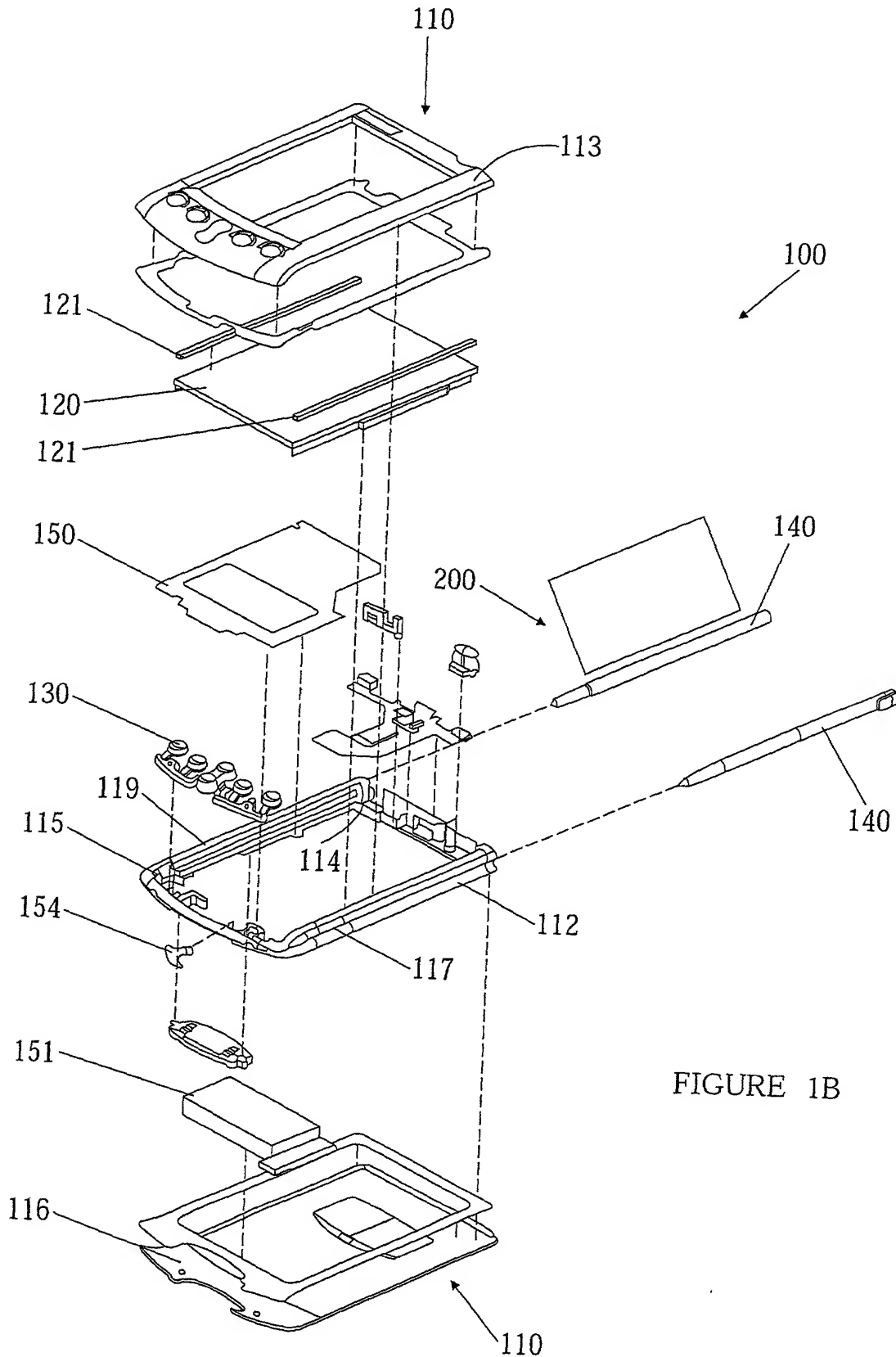


FIGURE 1B

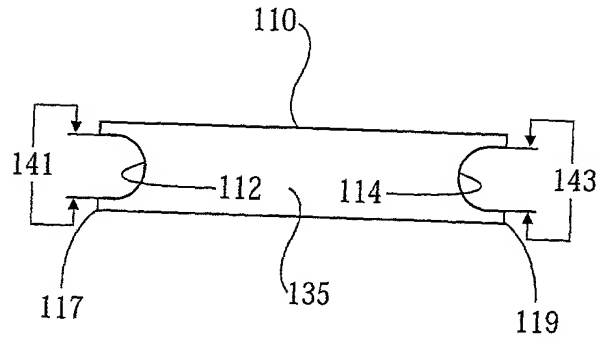


FIGURE 1C

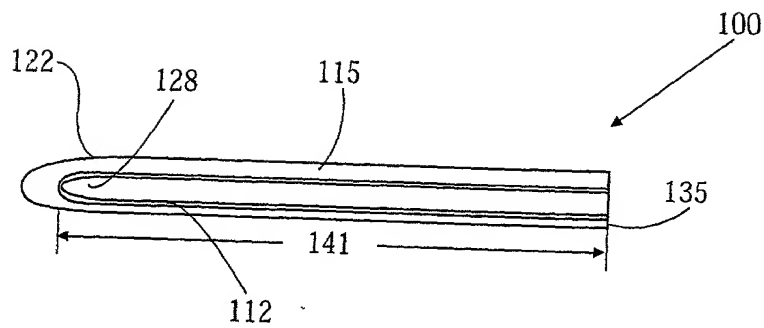
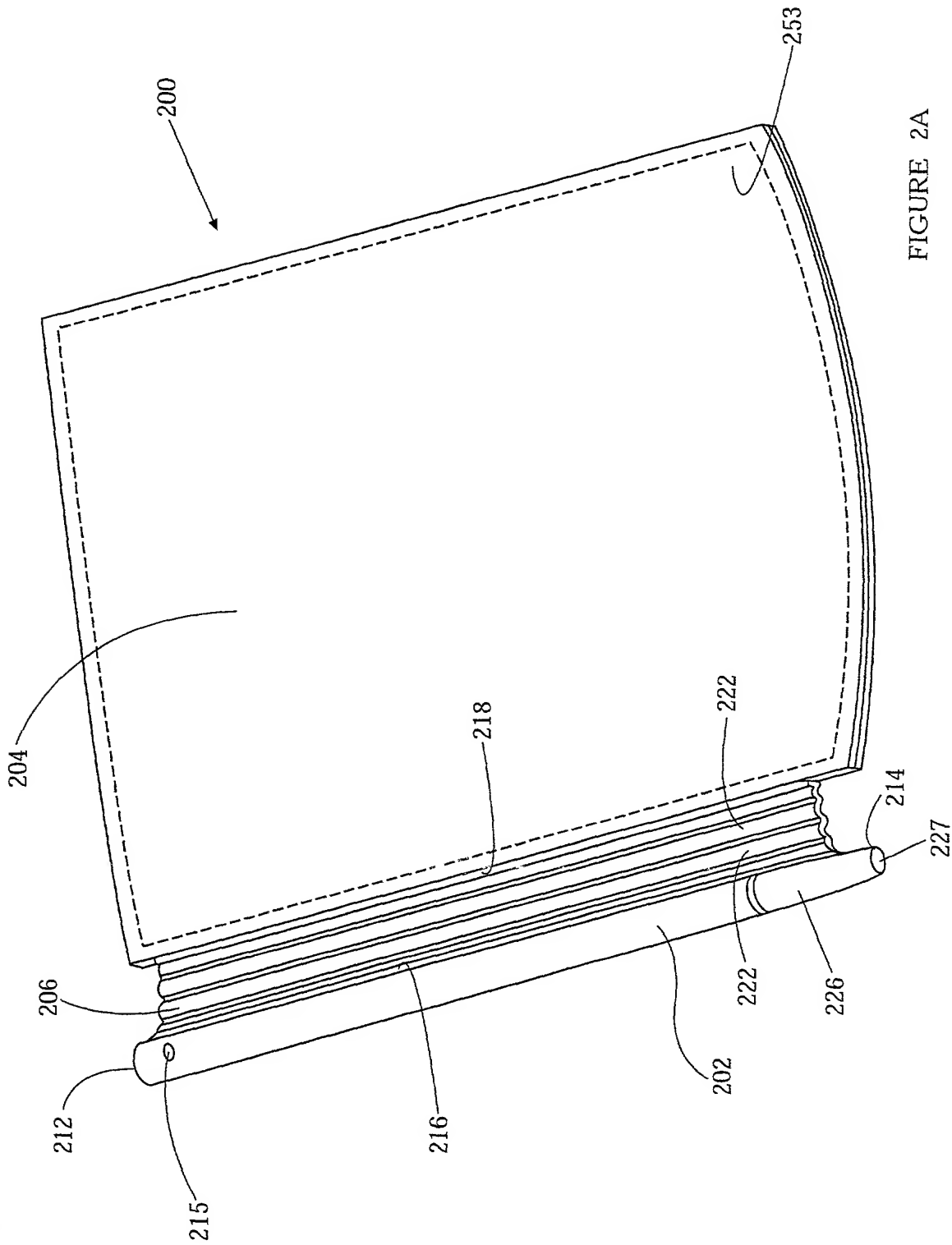


FIGURE 1D

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FIG. 2A



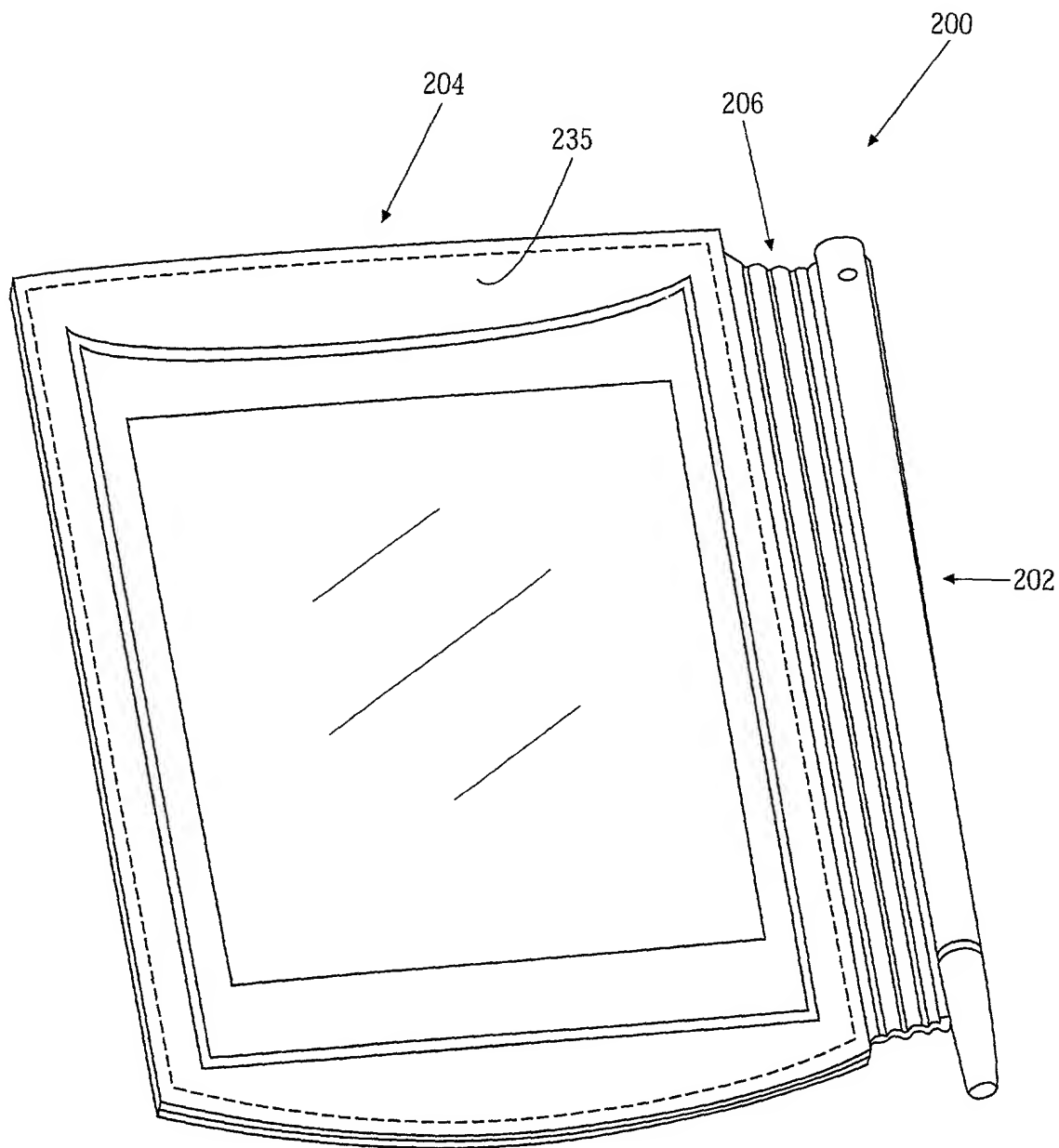


FIGURE 2B

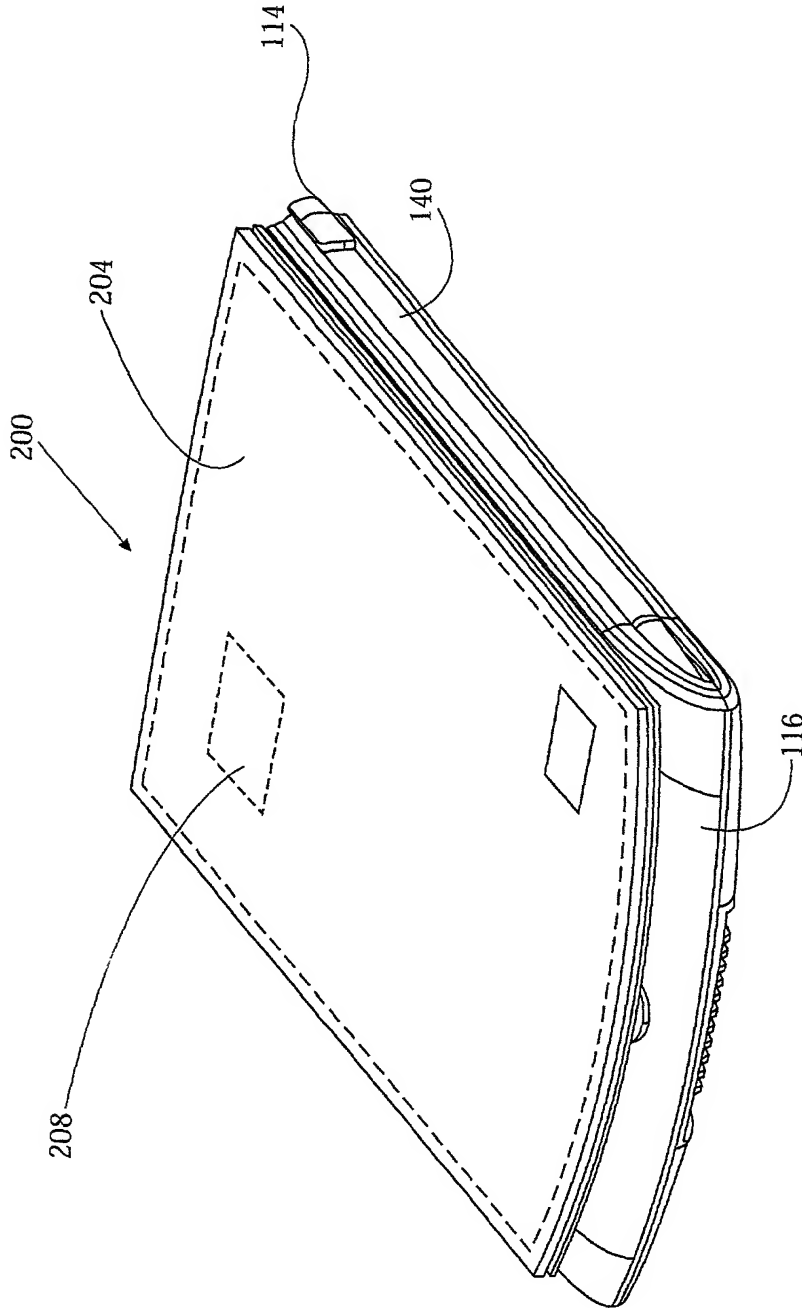
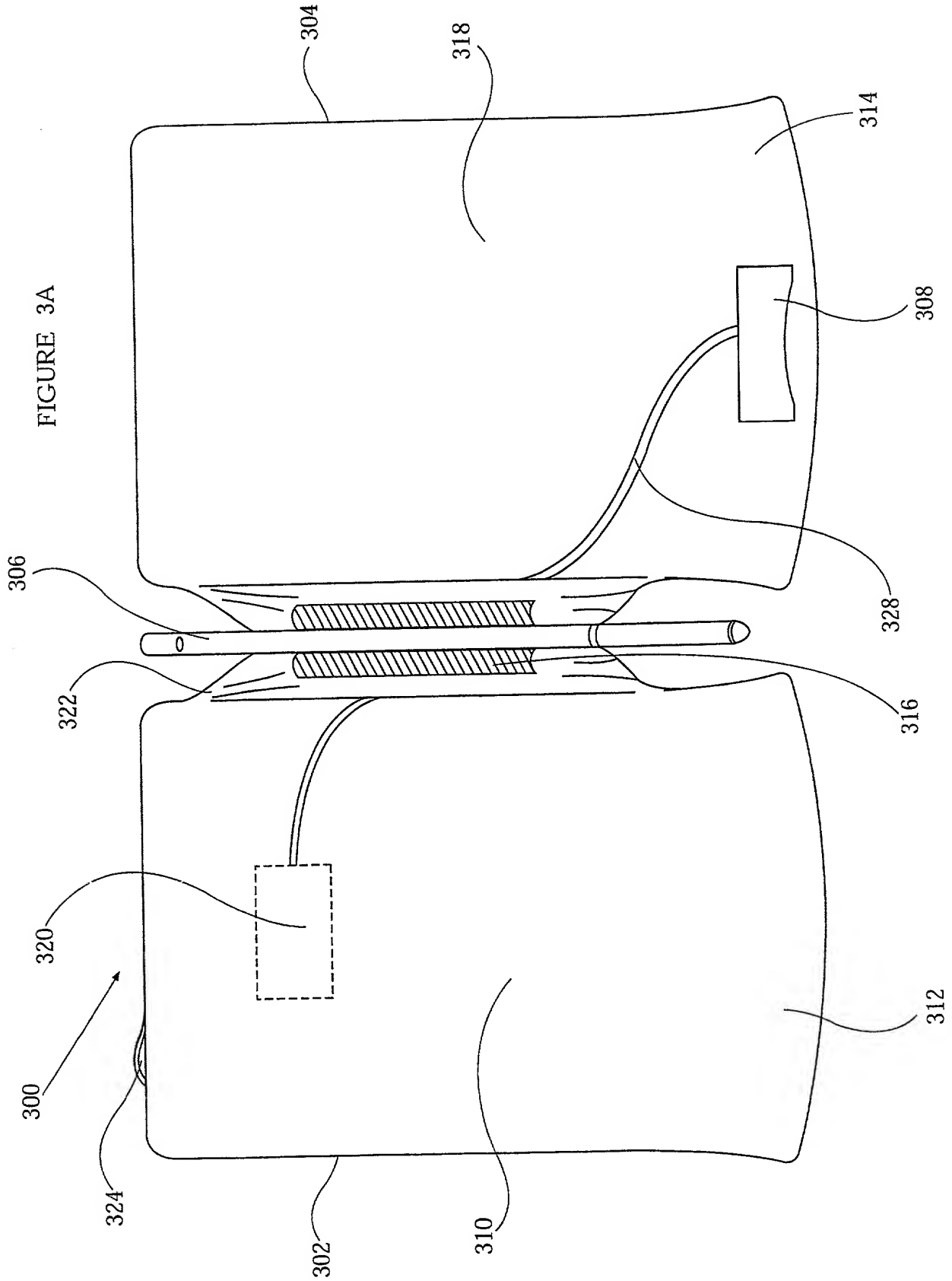


FIGURE 2C

FIGURE 3A



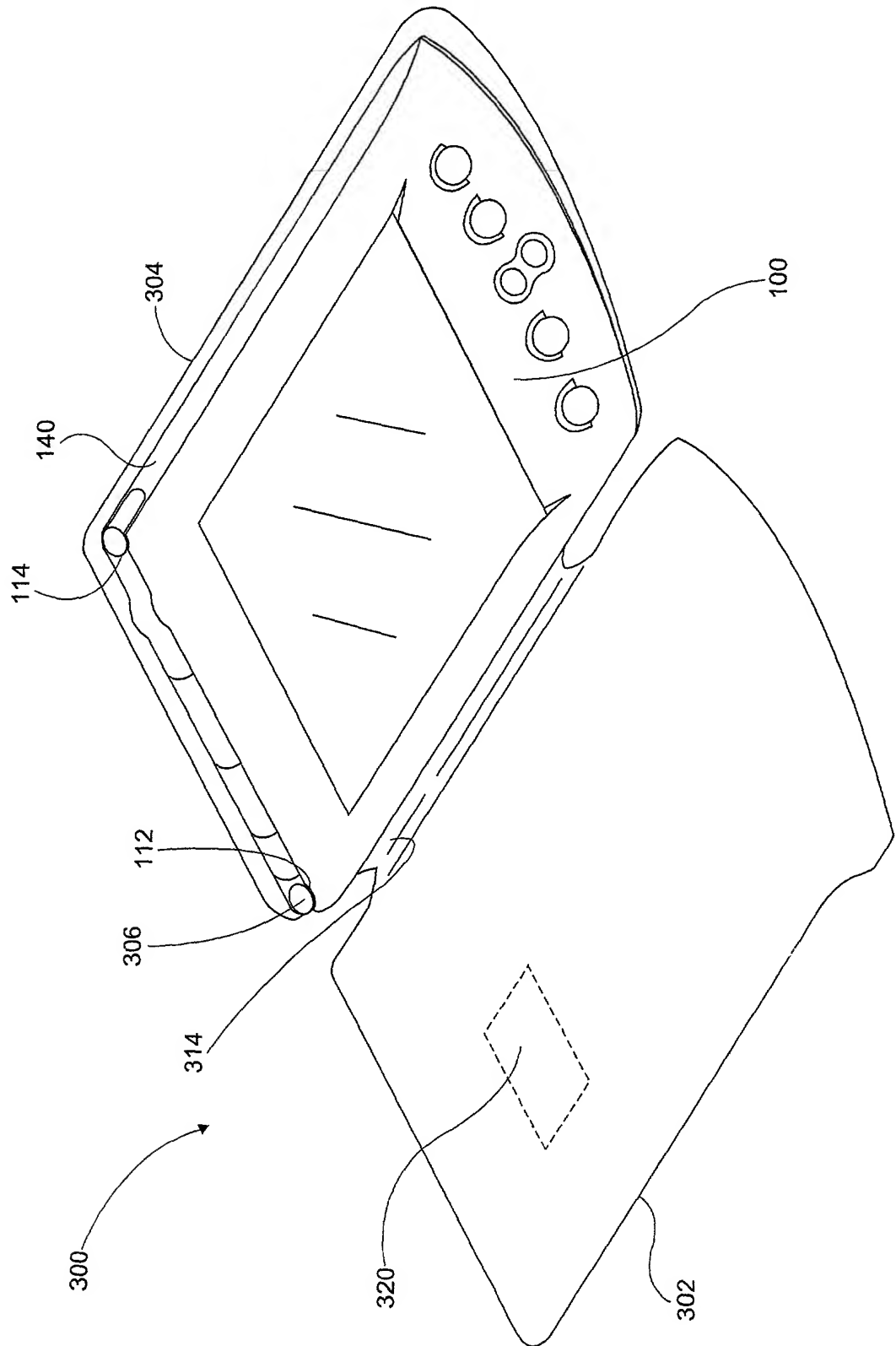


FIGURE 3B

2008.07.07 "25216-0882"

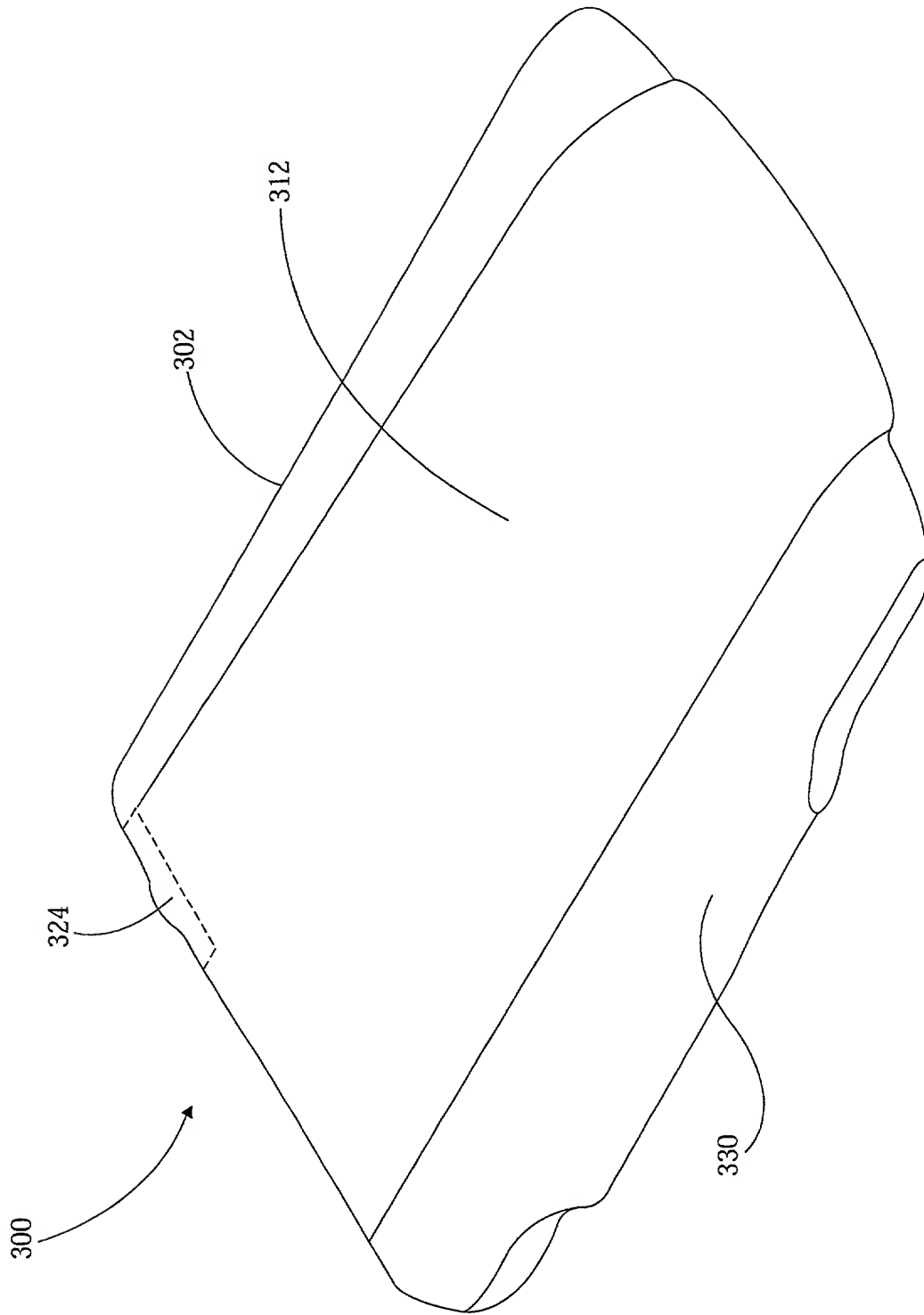


FIGURE 3C

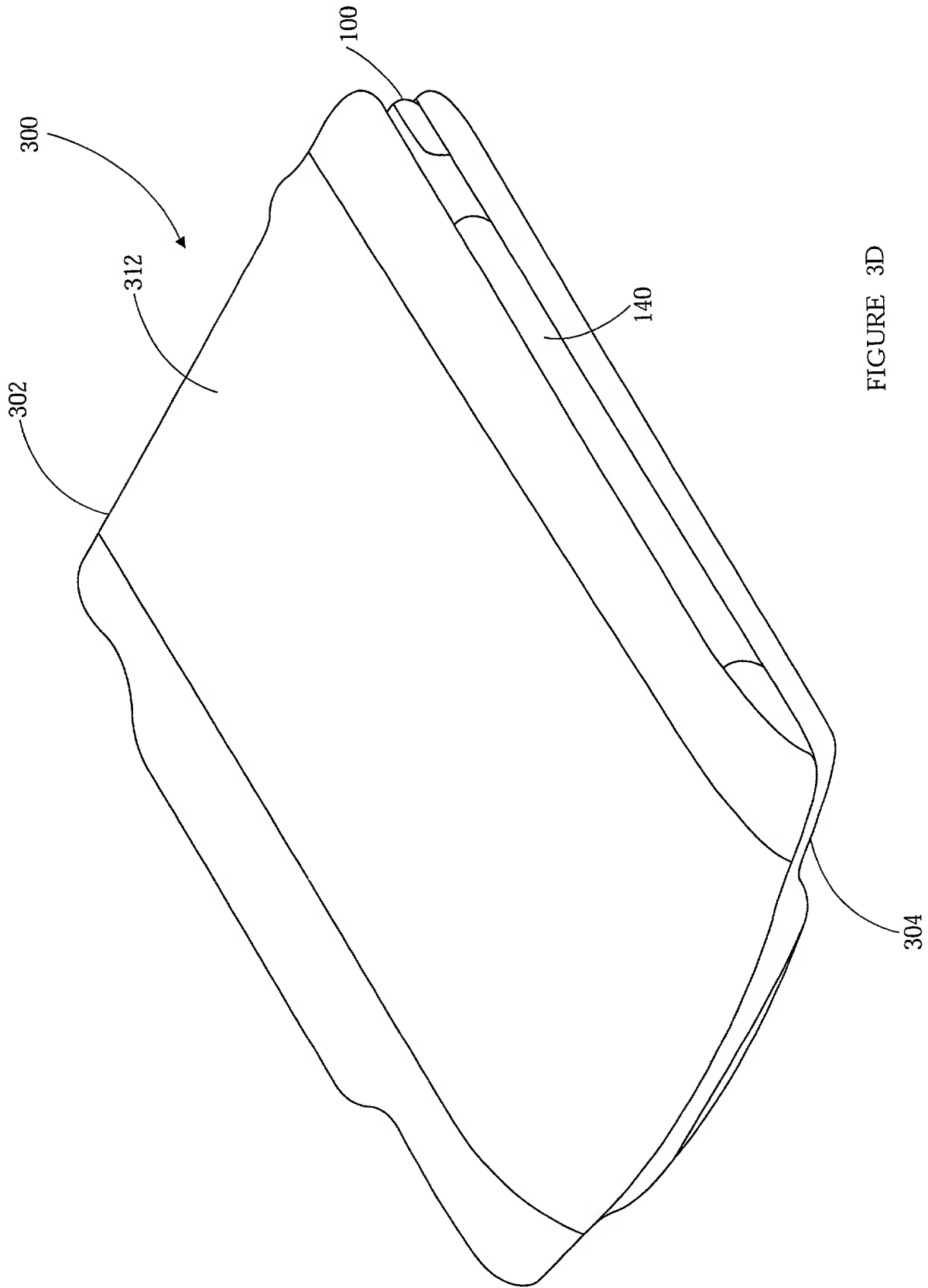


FIGURE 3D

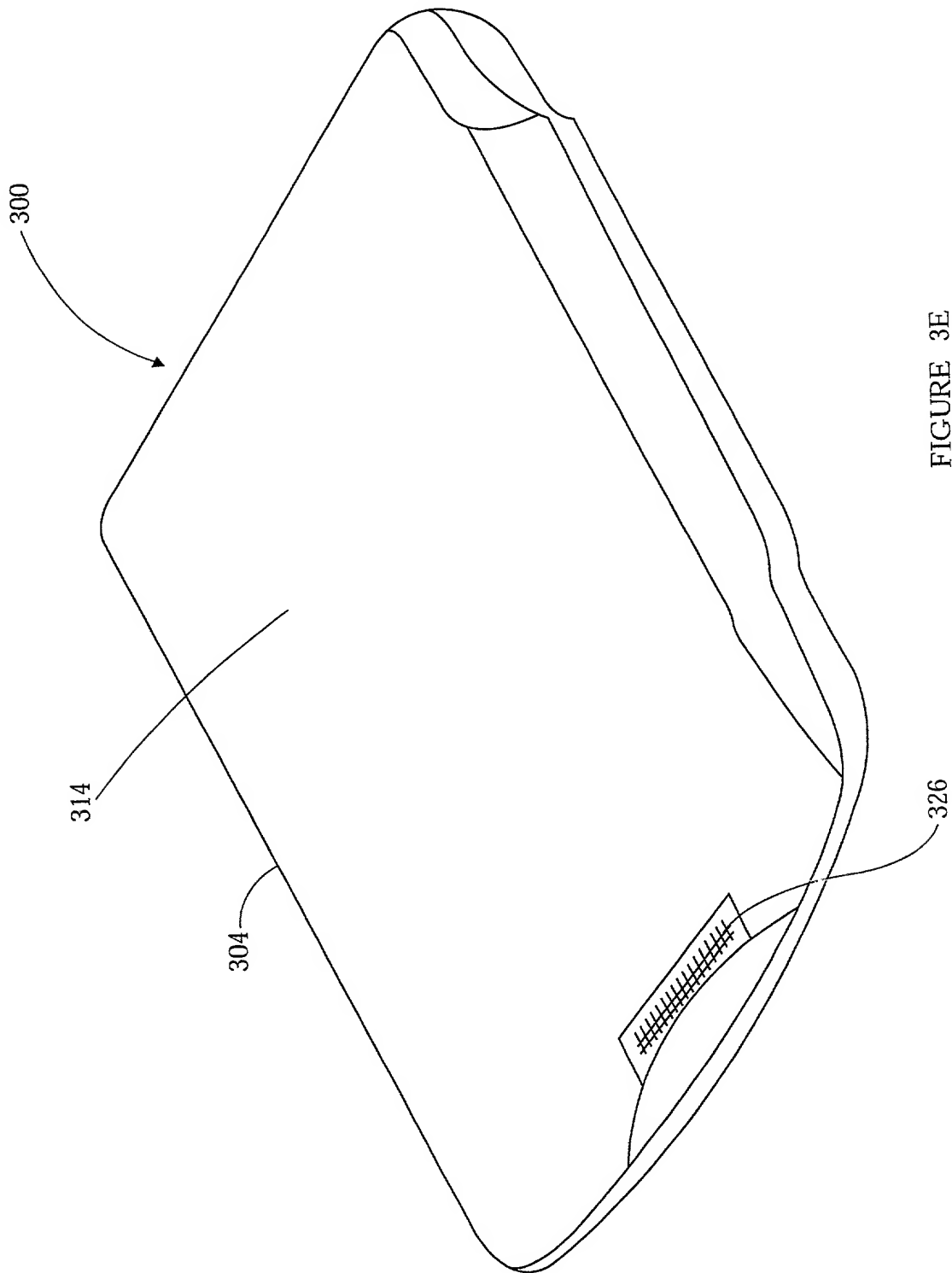
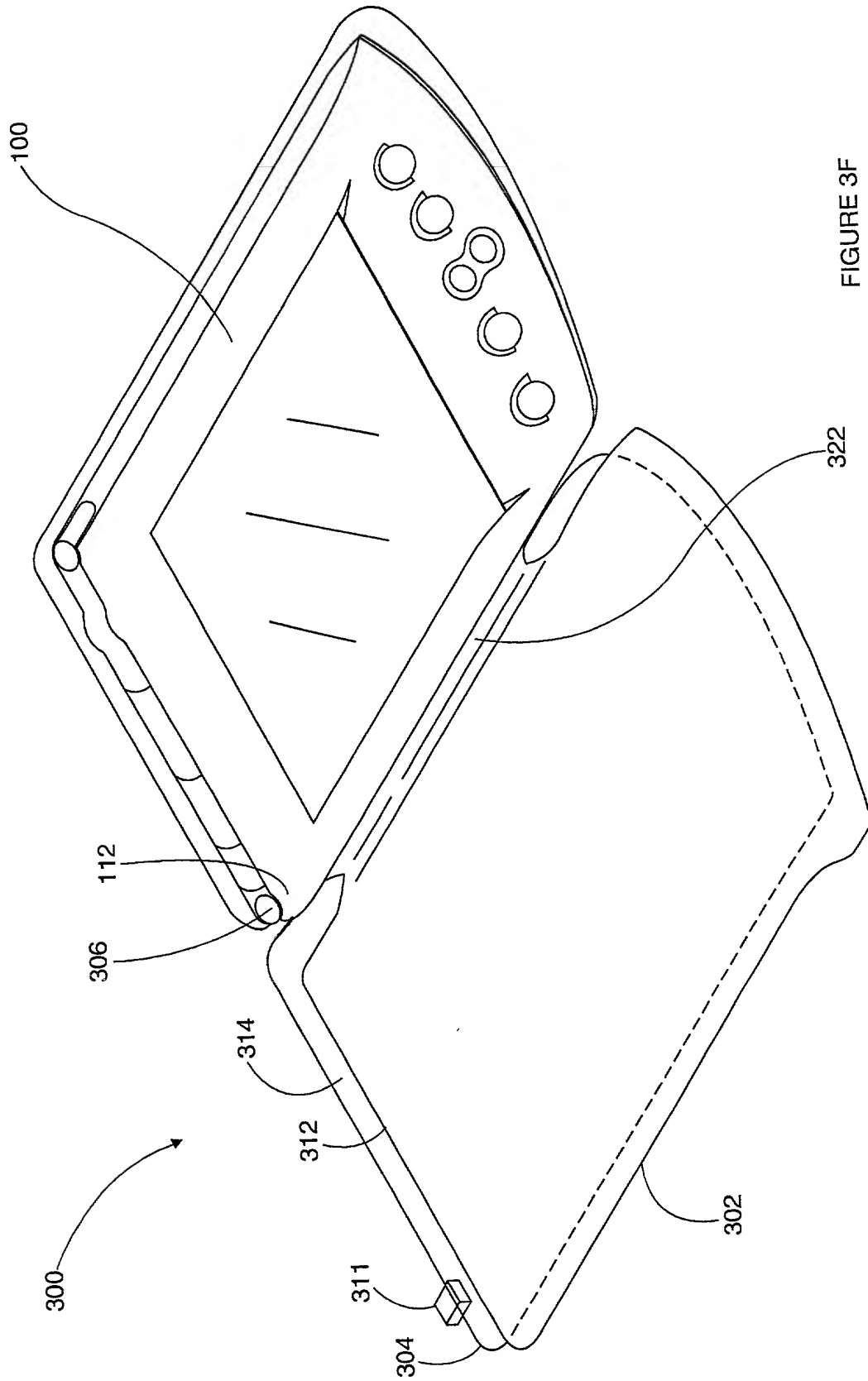


FIGURE 3E



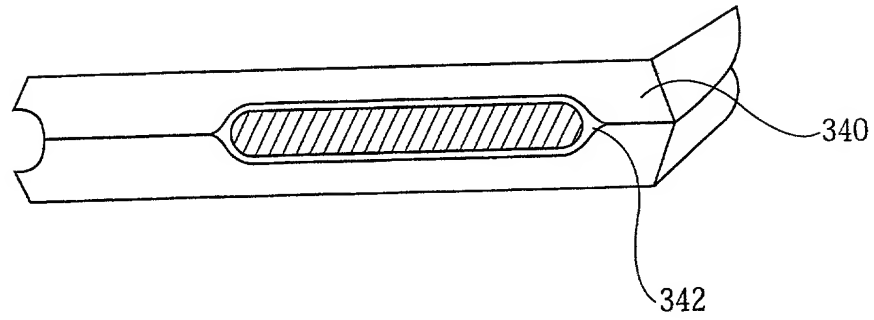


FIGURE 3G

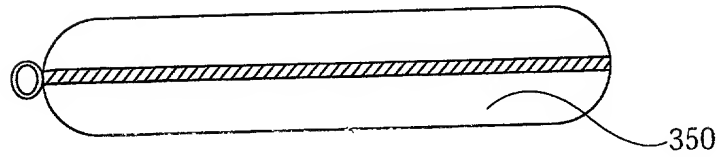


FIGURE 3H

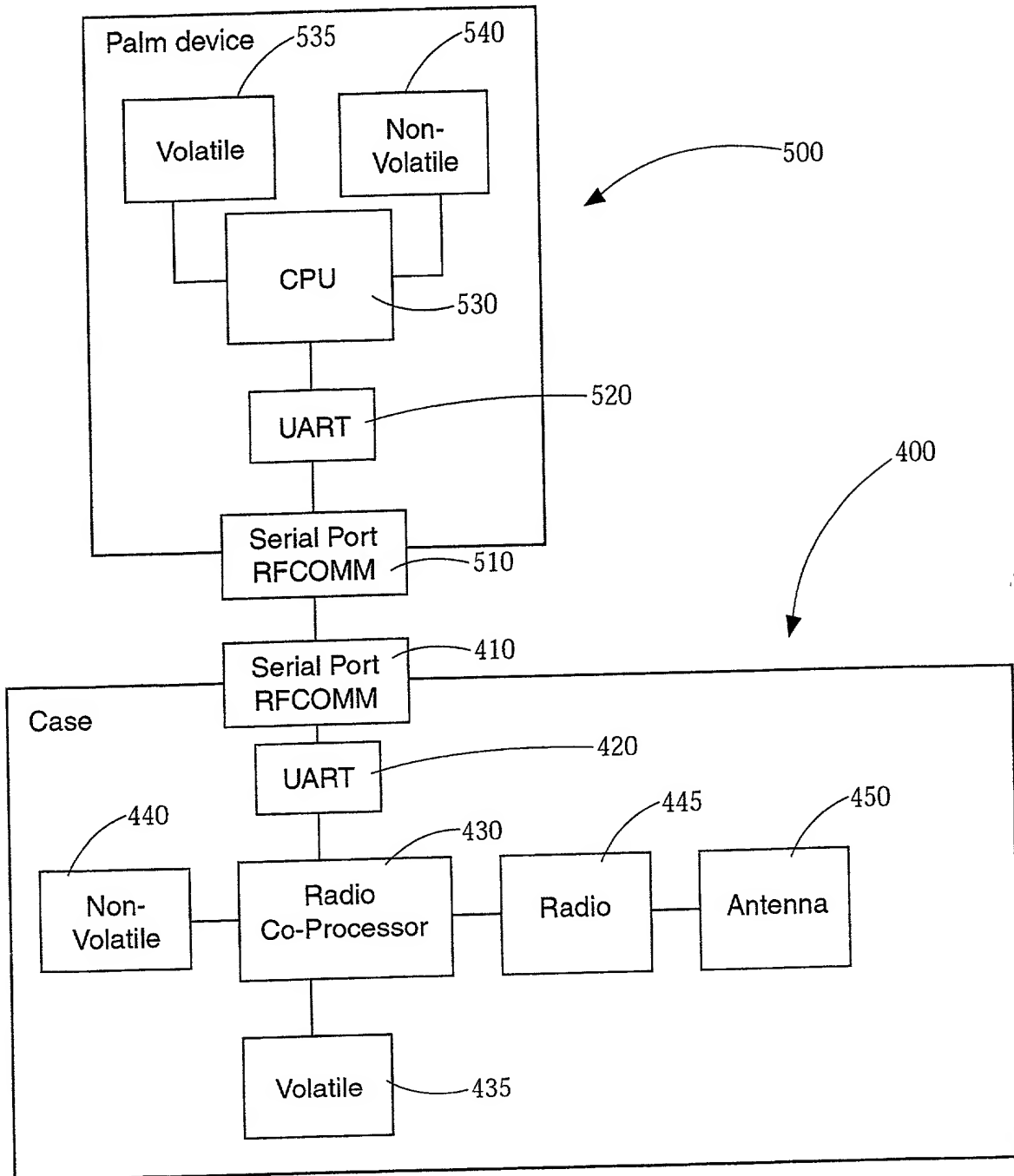


FIGURE 4